# OSINT & Digital Investigation Training

Tools for Verification, Geolocation, Satellite Analysis, Logistics Tracking, and Digital Security

# Day 1 & 5: Digital Security

- Wayback Machine, archive.ph, VeraCrypt, Signal, Tor Browser, ProtonVPN

# Wayback Machine & archive.ph

- Archive webpages and social media posts before deletion.
- Use for evidence preservation and chain of custody.

# VeraCrypt

- Create encrypted containers for reports, interviews, witness lists, and evidence.

# Signal

- End-to-end encrypted communication, disappearing messages, secure file sharing.

# Tor Browser & ProtonVPN

- Protect identity, reduce tracking, and secure online research.

# Day 2: Reverse Image Search

- InVID/WeVerify, Google Images, Google Lens, TinEye

# InVID / WeVerify

- Extract video keyframes, forensic analysis, reverse image search.

# Google Images & Lens

- Identify original sources, landmarks, reused images, and misinformation.

# TinEye

- Detect cropped, mirrored, or older versions of images.

# Day 2: Satellite Monitoring

- NASA FIRMS and Google Earth Pro

# NASA FIRMS

- Monitor active fires using MODIS and VIIRS satellite data.

# Google Earth Pro

- Import coordinates, analyze terrain, measure distances, compare imagery.

# Day 3: Geolocation

- SunCalc and Google Earth Pro

# SunCalc

- Estimate time of events using shadows, sun position, and date analysis.

# Google Earth Pro for Geolocation

- Match landmarks, roads, terrain, buildings, and topography.

# Day 4: Logistics Tracking

- MarineTraffic, VesselFinder, ADS-B Exchange

# MarineTraffic & VesselFinder

- Track vessel movements, ports, voyages, and ship identities.

# ADS-B Exchange

- Track aircraft movements and historical flight paths.

# Weapons Research

- Small Arms Survey and SIPRI Arms Transfers Database

# Small Arms Survey

- Identify weapons, ammunition, and conflict-related equipment.

# SIPRI Arms Transfers Database

- Track international arms transfers and delivery timelines.

# Practical Exercise

- Archive a post → Extract keyframes → Reverse search → Geolocate → Verify with FIRMS → Secure evidence.

# Key Takeaways

- Verification, geolocation, chronolocation, logistics tracking, and digital security form a complete OSINT workflow.